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1 [Proof-infused streams: enabling authentication of sliding window queries on streams](#)

Feifei Li, Ke Yi, Marios Hadjieleftheriou, George Kolios
 September 2007 VLDB '07: Proceedings of the 33rd international conference on Very large data bases

Publisher: VLDB Endowment

Full text available: [PDF](#) (344.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 48, Citation Count: 0

As computer systems are essential components of many critical commercial services, the need for secure online transactions is now becoming evident. The demand for such applications, as the market grows, exceeds the capacity of individual businesses to ...

2 Maintaining stream statistics over multiscale sliding windows



Yishan Jiao

December 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 4

Publisher: ACM

Full text available: [PDF](#) (536.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 153, Citation Count: 0

In this article, we propose a new multiscale sliding window model which differentiates data items in different time periods of the data stream, based on a reasonable monotonicity of resolution assumption. Our model, as a well-motivated extension of the ...

Keywords: F_0 , Data stream, jacard's similarity coefficient, multiscale sliding window model

3 Data page layouts for relational databases on deep memory hierarchies

Anastassia Ailamaki, David J. DeWitt, Mark D. Hill

November 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: [PDF](#) (593.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Citation Count: 3

Relational database systems have traditionally optimized for I/O performance and organized records sequentially on disk pages using the N-ary Storage Model (NSM) (a.k.a., slotted pages). Recent research, however, indicates that cache utilization ...

Keywords: Cache-conscious database systems, Disk page layout, Relational data placement

4 Practical byzantine fault tolerance and proactive recovery



Miguel Castro, Barbara Liskov

November 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 4

Publisher: ACM

Full text available: [PDF](#) (1.63 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 362, Citation Count: 25

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

5 A simple mechanism for capturing and replaying wireless channels

 Glenn Judd, Peter Steenkiste
August 2005 E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis

Publisher: ACM

Full text available:  [pdf](#) (6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 52, Downloads (12 Months): 525, Citation Count: 2

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Keywords: channel capture, emulation, wireless

6 Locating internet routing instabilities

 Anja Feldmann, Olaf Maennel, Z. Morley Mao, Arthur Berger, Bruce Maggs
August 2004 SIGCOMM '04: Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  [pdf](#) (299.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 63, Citation Count: 23

This paper presents a methodology for identifying the autonomous system (or systems) responsible when a routing change is observed and propagated by BGP. The origin of such a routing instability is deduced by examining and correlating BGP updates for ...

Keywords: BGP, analysis, instability origin, root cause analysis, routing instability, simulation

7 Locating internet routing instabilities

Anja Feldmann, Olaf Maennel, Z. Morley Mao, Arthur Berger, Bruce Maggs

August ACM SIGCOMM Computer Communication Review, Volume 34 Issue 4
2004

Publisher: ACM

Full text available:  PDF (299.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 63, Citation Count: 23

This paper presents a methodology for identifying the autonomous system (or systems) responsible when a routing change is observed and propagated by BGP. The origin of such a routing instability is deduced by examining and correlating BGP updates for ...

Keywords: BGP, analysis, instability origin, root cause analysis, routing instability, simulation

8 Historical spatio-temporal aggregation

Yufei Tao, Dimitris Papadias

January ACM Transactions on Information Systems (TOIS), Volume 23 Issue 2005 1

Publisher: ACM

Full text available:  PDF (1.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 164, Citation Count: 1

Spatio-temporal databases store information about the positions of individual objects over time. However, in many applications such as traffic supervision or mobile communication systems, only summarized data, like the number of cars in an area for a ...

Keywords: Aggregation, access methods, cost models

9 The architecture and implementation of CPN2000, a post-WIMP graphical application

Michel Beaudouin-Lafon, Henry Michael Lassen

November UIST '00: Proceedings of the 13th annual ACM symposium on User 2000 interface software and technology

Publisher: ACM

Full text available:  PDF (92.34 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 58, Citation Count: 16

Keywords: OpenGL, advanced interaction techniques, coloured Petri nets, instrumental interaction, post-WIMP interfaces, two-handed input, user interface toolkit

10 Mining block correlations to improve storage performance



Zhenmin Li, Zhifeng Chen, Yuanyuan Zhou
May 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 2

Publisher: ACM

Full text available: [PDF](#) (1.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 182, Citation Count: 2

Block correlations are common semantic patterns in storage systems. They can be exploited for improving the effectiveness of storage caching, prefetching, data layout, and disk scheduling. Unfortunately, information about block correlations is unavailable ...

Keywords: Storage management, block correlations, file system management, mining methods and algorithms

11 Understanding the network-level behavior of spammers



Anirudh Ramachandran, Nick Feamster
August 2006 ACM SIGCOMM Computer Communication Review, Volume 36 Issue 4

Publisher: ACM

Full text available: [PDF](#) (410.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 487, Citation Count: 21

This paper studies the *network-level* behavior of spammers, including: IP address ranges that send the most spam, common spamming modes (e.g., BGP route hijacking, bots), how persistent across time each spamming host is, and characteristics of ...

Keywords: BGP, botnet, network management, security, spam

12 Understanding the network-level behavior of spammers



Anirudh Ramachandran, Nick Feamster
September 2006 SI GCOMM '06: Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: [PDF](#) (410.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 487, Citation Count: 21

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Keywords: BGP, botnet, network management, security, spam

13 The look of the link - concepts for the user interface of extended hyperlinks

 Harald Weinreich, Hartmut Obendorf, Winfried Lamersdorf
September 2001 HYPERTEXT '01: Proceedings of the 12th ACM conference on Hypertext and Hypermedia

Publisher: ACM

Full text available:  [pdf](#) (307.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 96, Citation Count: 7

The design of hypertext systems has been subject to intense research. Apparently, one topic was mostly neglected: how to visualize and interact with link markers. This paper presents an overview of pragmatic historical approaches, and discusses problems ...

Keywords: Web, XLink, distributed hypertext, link marker, user interface

14 Using certes to infer client response time at the web server

 David Olshefski, Jason Nieh, Dakshi Agrawal
February 2004 ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 1

Publisher: ACM

Full text available:  [pdf](#) (2.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 87, Citation Count: 2

As businesses continue to grow their World Wide Web presence, it is becoming increasingly vital for them to have quantitative measures of the mean client perceived response times of their web services. We present Certes (CliEnt Response Time Estimated ...

Keywords: Web server, client perceived response time

15 Measuring and characterizing end-to-end Internet service performance



Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 ACM Transactions on Internet Technology (TOIT), Volume 3 Issue 4

Publisher: ACM

Full text available: Pdf (1.46 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 217, Citation Count: 5

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

16 Interactions: Volume 15 Issue 1



January 2008 issue Volume 15 Issue 1

Publisher: ACM

Full text available: Digital Edition , Pdf (9.79 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 194, Downloads (12 Months): 454, Citation Count: 0

17 The when, why and why not of the BETA programming language



Bent Bruun Kristensen, Ole Lehrmann Madsen, Birger Møller-Pedersen

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Full text available: Pdf (817.60 KB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 383, Citation Count: 0

This paper tells the story of the development of BETA: a programming language with just one abstraction mechanism, instead of one abstraction mechanism for each kind of program element (classes, types, procedures, functions, etc.). The paper explains ...

Keywords: history of programming, object-oriented analysis, object-oriented design, object-oriented modeling, object-oriented programming, programming languages

18 [Interactions: Volume 15 Issue 4](#)

July 2008 issue Volume 15 Issue 4

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (5.84 MB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 308, Downloads (12 Months): 236, Citation Count: 0

19 [Object tracking: A survey](#)

Alper Yilmaz, Omar Javed, Mubarak Shah

December ACM Computing Surveys (CSUR), Volume 38 Issue 4 2006

Publisher: ACM

Full text available:  Pdf (2.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 429, Downloads (12 Months): 6459, Citation Count: 2

The goal of this article is to review the state-of-the-art tracking methods, classify them into different categories, and identify new trends. Object tracking, in general, is a challenging problem. Difficulties in tracking objects can arise due to abrupt ...

Keywords: Appearance models, contour evolution, feature selection, object detection, object representation, point tracking, shape tracking

20 [I/O reference behavior of production database workloads and the TPC](#)

[benchmarks—an analysis at the logical level](#)

Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

March ACM Transactions on Database Systems (TODS), Volume 26 Issue 1 2001

Publisher: ACM

Full text available:  Pdf (5.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 141, Citation Count: 8

As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amounts of data. The key to achieving ...

Keywords: I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

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